DISCOURSE

SPRING SEMESTER | 2024

ACADEMY OF NEUROSCIENCE FOR ARCHITECTURE
presents the inaugural

JOHN P. EBERHARD STUDENT DESIGN COMPETITION

In recognition of the Academy of Neuroscience For Architecture's 20th anniversary and in honor of one of its key founding members, ANFA will be holding its first John P. Eberhard Student Design Competition, with the goal of creating greater interest in and understanding of the relationship between neuroscience and architecture.

John P. Eberhard Student Design Competition

In recognition of the 20th anniversary of the founding of the Academy of Neuroscience for Architecture, ANFA will host a design competition honoring one of its key founding members, John P. Eberhard, FAIA, creating greater interest and understanding of the relationship between neuroscience and architecture.

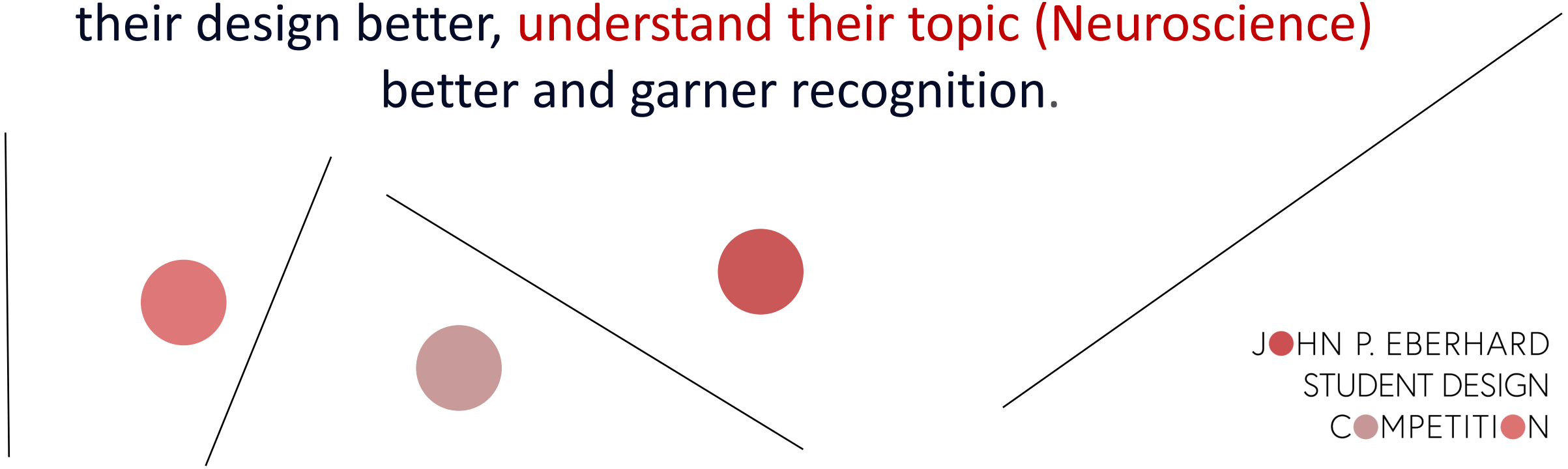
Eligible Applicants

- Graduate students currently enrolled in a college or university architecture program
- Undergraduate students currently enrolled in a college or university architecture program
- Graduate Interior Design Students enrolled in college or university programs
- Undergraduate Interior Design Students enrolled in college or university programs
- Graduate and Undergraduate Neuroscience students interested in architecture.
- Students from Extension Programs associated with Architecture Interior Design or Neuroscience programs

If there are students associated with college or university-level programs not listed above who are interested in participating, please contact the competition working group at *johnpeberharddesigncompetition@gmail.com*

Student Design Competition

A Design competition motivates students to perform and excel in their fields. Architecture competitions offer a chance for participants to gain experience, showcase skills, understand their design better, understand their topic (Neuroscience) better and garner recognition.



JOHN P. EBERHARD
STUDENT DESIGN
COMPETITION

Mission & Goals:

- **Foster a dynamic conversation between neuroscience and architecture.**
- **Enhance neuroscience knowledge in architecture.**
- **Showcase scientists and students in neuroscience.**
- **Foster collaboration within or between institutions.**
- **Cultivate opportunities for students to become interested in both architecture and neuroscience.**

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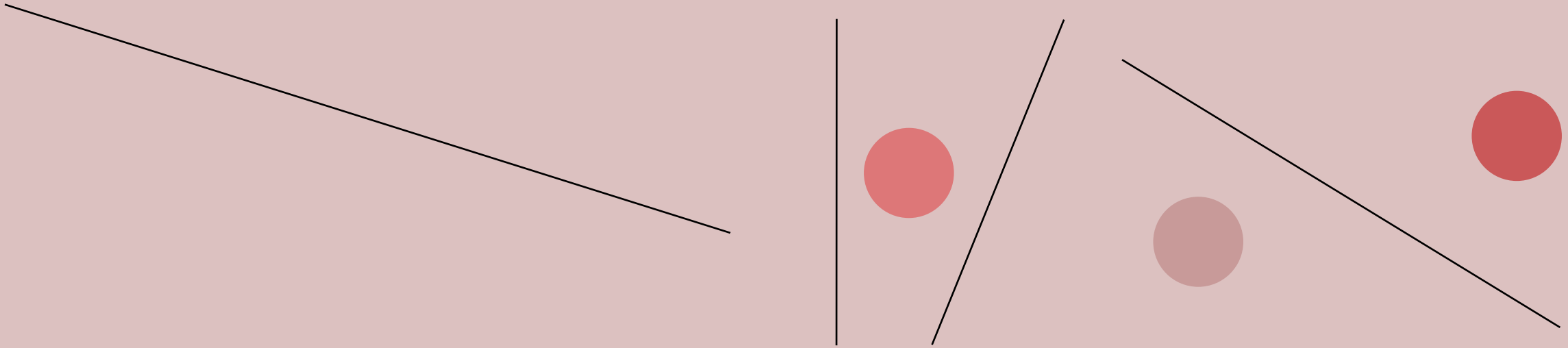
STUDENT DESIGN
COMPETITION

Discourse

Spring Semester 2024

A formal and orderly and usually extended expression of thought on a subject.



CHALLENGE:

Design a COMMUNITY CENTER

Using the principles of NEUROSCIENCE

Use research related to John Eberhard's topics of "Neuroscience for Architecture" to design a building or interior space that not only conveys the neuroscience topics to a defined group of building users, but that also incorporates the topics in the design of the project.
Submissions will be juried on the depth of research, exhibition of understanding of the research and the effectiveness of the implementation of the research into the design proposal.

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COMPETITION

BRIEF: A COMMUNITY CENTER FOR NEUROSCIENCE

The site for the competition is located on the Salk Institute campus; the institute holds a connection to the Academy of Neuroscience for Architecture (ANFA) and boasts international recognition in the field of architecture. As part of the competition, students will be asked to identify the building function and the anticipated user demographics, while ensuring that the project demonstrates how the users are being educated on the neuroscience topics. The activities conducted in the building must align with neuroscience principles or the study of neuroscience. The project must accommodate an “artist/architect” and “scientist” in-residence, demonstrating the collaborative efforts between these building users to achieve the objectives above as well as activities that encompass the intersection or mash-up of architecture and neuroscience fields and/or professionals. These activities should align with the principles of neuroscience and promote the education of users on neuroscience topics. Participants are encouraged to suggest additional activities that bring neuroscience and architecture into conversation with each other. More detailed information to be distributed at the launch of the competition on January 1, 2024.

The competition will have two entry categories;
Architecture Category and an **Interior Desig**n Category.
The Architectural category will ask students for a standalone solution, while the Interior Design Category will ask students to design a space within a structure provided by the competition. Both categories will be judged with the same criteria based in the understanding and utilization of the research provided.

Framework

Theme:

Each submission entry must be predicated on one or more of the 5 topics of neuroscience and architecture as stated by John Eberhard in “Neuroscience for Architecture”; Sensation and Perception, Learning and Memory, Decision Making, Emotion and Affect, and Movement

While the field of neuroscience and its relationship to architecture expands beyond these 5 themes, these 5 topics will serve as a base framework for the competition to organize conversations between the students and the selected jury. Reference material will be provided by the competition in the share-folders, but participants are encouraged to supplement their entries with additional research and references, as long as the topic and design solution are clearly supported and articulated in the submissions.

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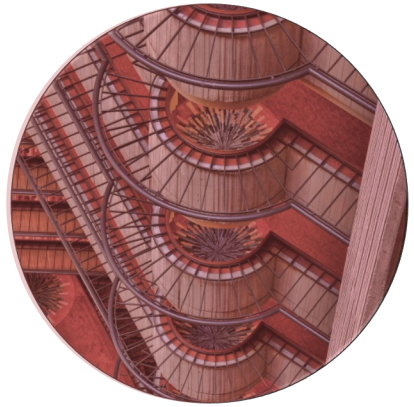
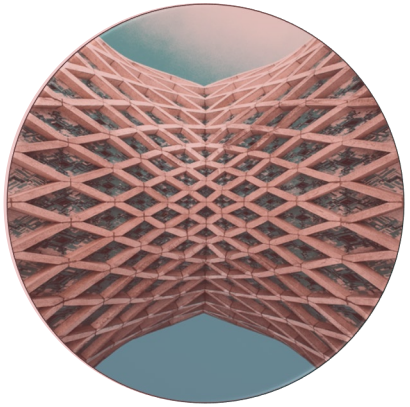
STUDENT DESIGN
COMPETITION

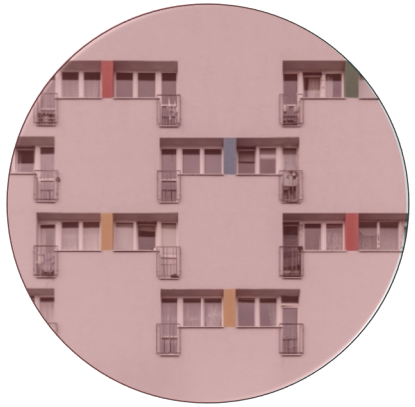


Sensation & Perception



Learning & Memory

Decision-making



Emotion & Affect

Movement

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Neuroscience Topics

Sensation and Perception:

- Explore how human senses (vision, hearing, smell, taste, etc.) influence architectural experiences.
- Design spaces that optimize sensory stimuli to enhance occupants' well-being and engagement.

Learning and Memory:

- Investigate how architectural design can support effective learning and memory retention.
- Create environments that facilitate information processing, recall, and knowledge acquisition.

Decision-making:

- Examine the impact of architectural elements on decision-making processes.
- Develop designs that promote better decision-making by considering cognitive biases and environmental influences.

Emotion and Affect:

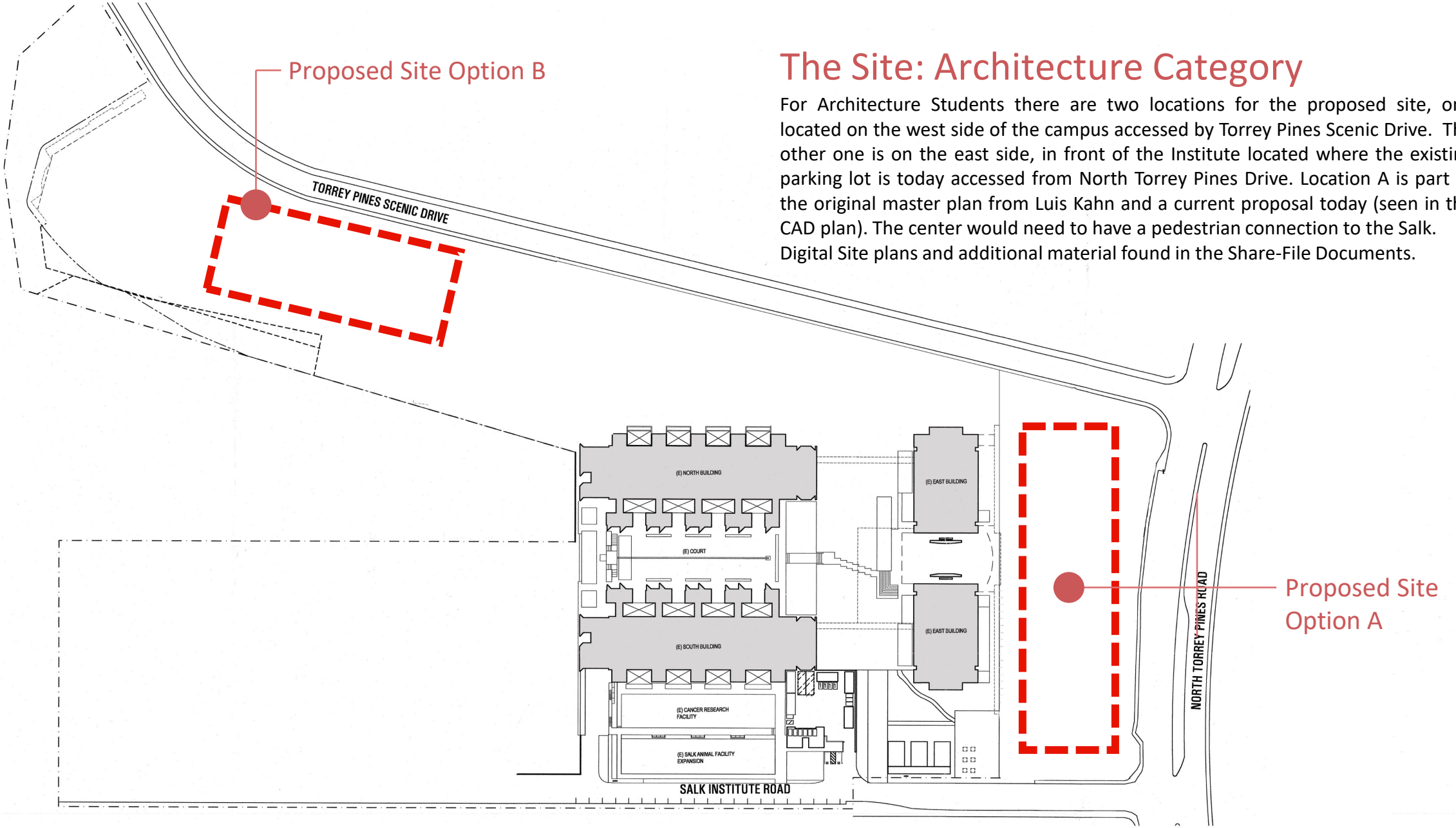
- Analyze the role of architecture in evoking and influencing emotions.
- Design spaces that elicit specific emotional responses, enhance mood, and promote well-being.

Movement:

- Explore the relationship between architecture and human movement and navigation.
- Create environments that facilitate intuitive wayfinding, physical activity, and interaction with the built environment

The Site: Architecture Category

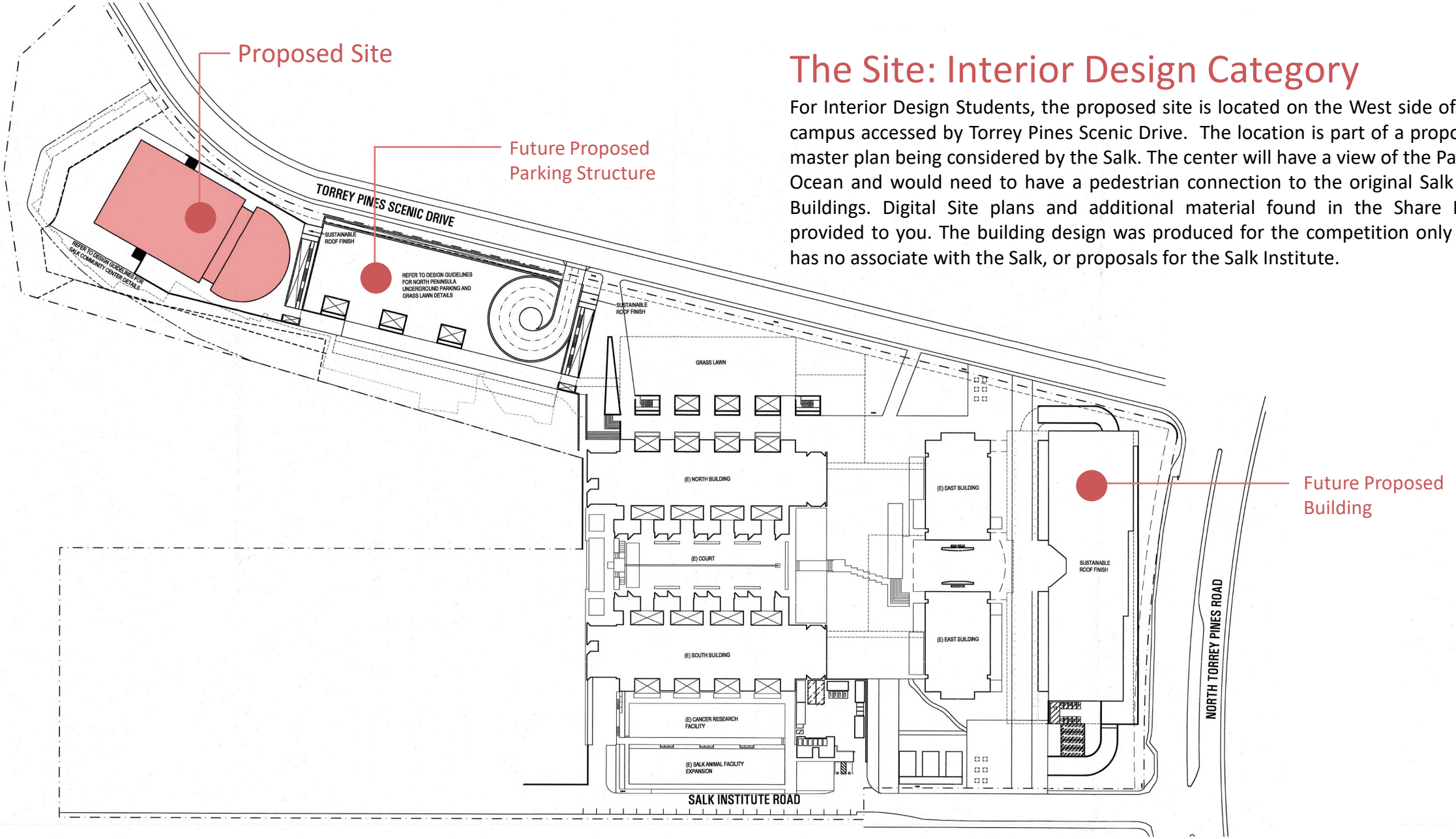
For Architecture Students there are two locations for the proposed site, one located on the west side of the campus accessed by Torrey Pines Scenic Drive. The other one is on the east side, in front of the Institute located where the existing parking lot is today accessed from North Torrey Pines Drive. Location A is part of the original master plan from Luis Kahn and a current proposal today (seen in the CAD plan). The center would need to have a pedestrian connection to the Salk. Digital Site plans and additional material found in the Share-File Documents.



Digital copies of Site Plan will be provided on the share site for the competition.

The Site: Interior Design Category

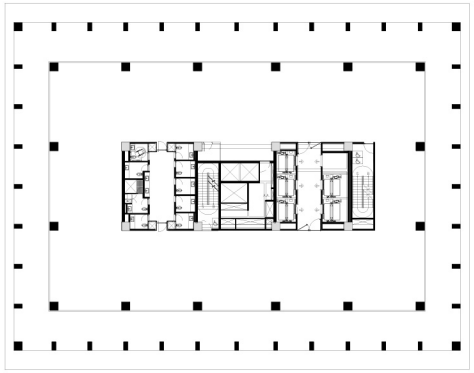
For Interior Design Students, the proposed site is located on the West side of the campus accessed by Torrey Pines Scenic Drive. The location is part of a proposed master plan being considered by the Salk. The center will have a view of the Pacific Ocean and would need to have a pedestrian connection to the original Salk Lab Buildings. Digital Site plans and additional material found in the Share Files provided to you. The building design was produced for the competition only and has no associate with the Salk, or proposals for the Salk Institute.



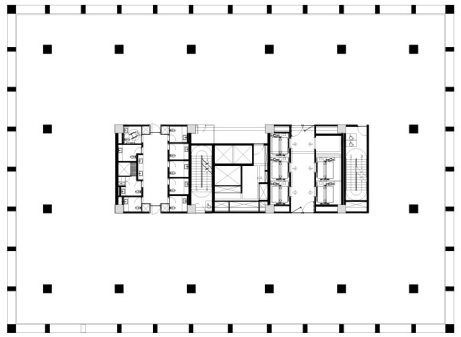
Digital copies of Site Plan, Building Plans, and Elevations, will be provided on the share site for the competition.

The Site: Interior Design

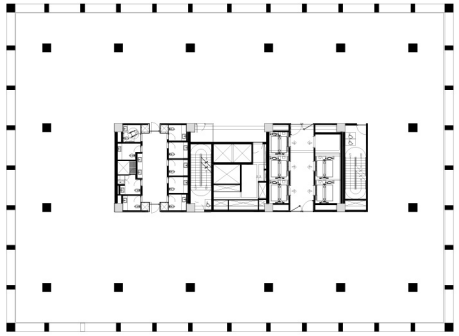
The prosed Interior Design Solutions are to be within the confines of the building provided, although students are allowed to utilize the materials given as they see fit.



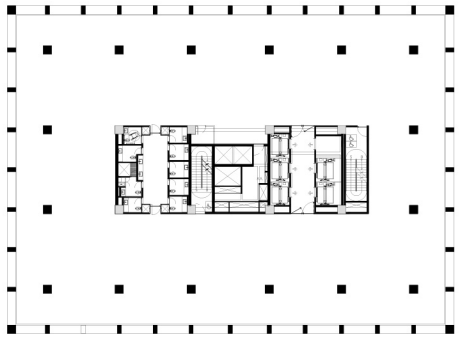
1ST FLOOR



2ND FLOOR



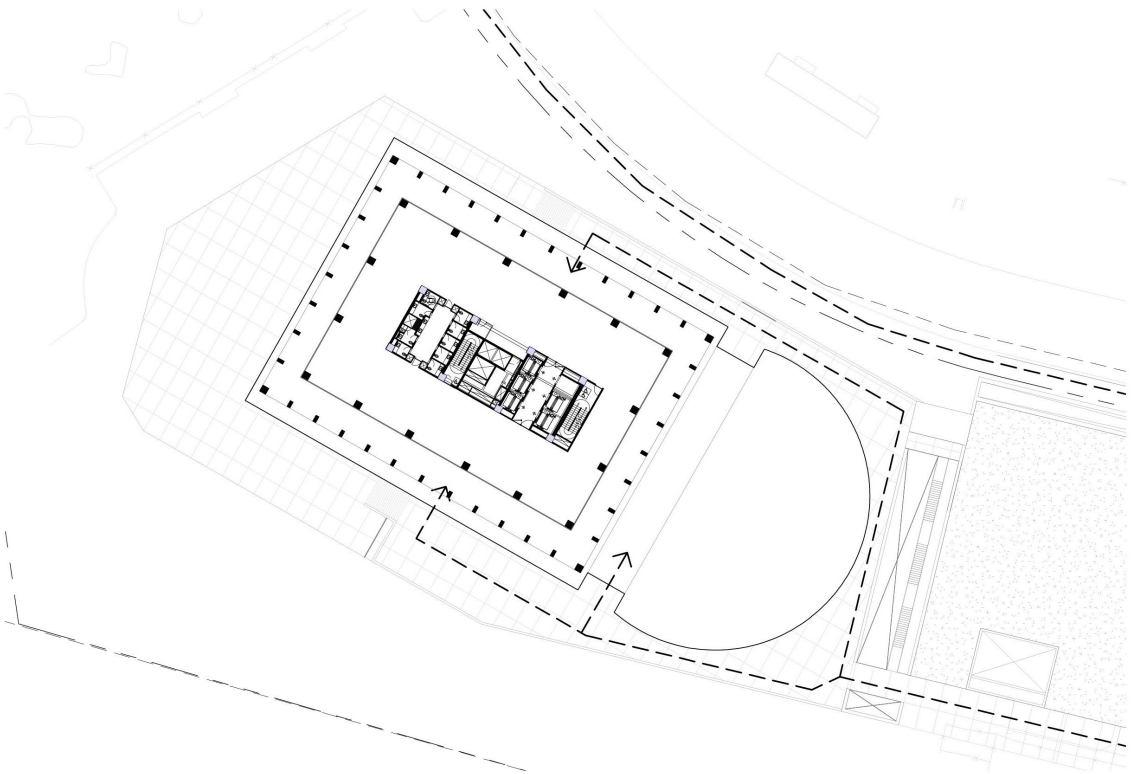
3RD FLOOR



4TH FLOOR

COMMUNITY CENTER
(4 STORIES)

Floor Plans– See CAD Plans for Scale

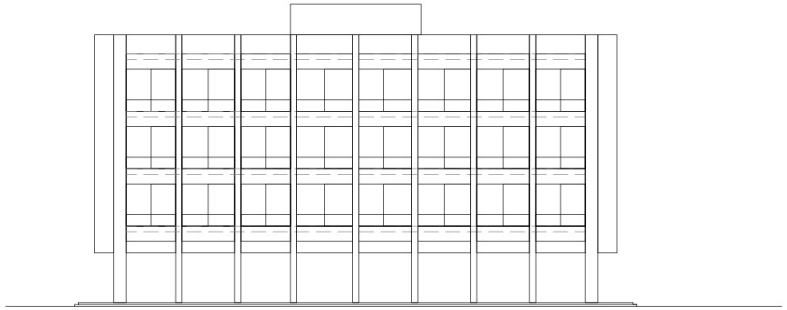


Siting Plan – See CAD Plans for Scale

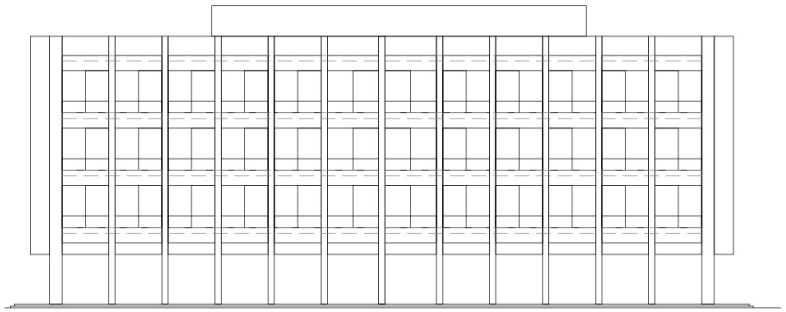
Digital copies of Site Plan, Building Plans, and Elevations, will be provided on the share site for the competition.

Elevations: Interior Design

The building elevations provided are for this competition only. CAD drawings of the building elevations provided in the competition folders. Students may make assumptions regarding building interior structure and building as long as they align with the elevations and plans provided.



Building East and West Elevations - – NTS See CAD Elevations



Building North and South Elevations – NTS See CAD Elevations

Digital copies of Site Plan, Building Plans, and Elevations, will be provided on the share site for the competition.

Submission Parameters

Program both for Architecture and Interior Design:

Event Space – 10,000 sf:
This space is for the community to use, but the programming will be up to each participating team to define based on the subject matter being addressed.

Exhibition Space - 500sf – 1000sf min:
Space for each entry to showcase their subject matter in space and feature the collaboration between architect/designer and scientist.

Space for Architect/Artist/Designer in residence – 5,000sf min:
Based on the subject matter proposed by the entry, a space must be provided for a practitioner of space design specializing in the chosen topic of the entry.

Space for Scientist – 5,000sf min:
Based on the subject matter proposed by the entry, a space must be provided to support research of scientist in that field.

Support space - 2,000sf:
Defined by each participant team, but must include restrooms, catering support and or pantry, and storage

Additional Program – Area Defined by Participants:
Those who submit entries will be allowed to add program elements to the above as they see fit to better showcase their concept and understanding of the concept, however all program elements above must be represented.

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STUDENT DESIGN
COMPETITION

Research

Demonstration of the Understanding of the science and Concept

Effectiveness of the Design in Communicating the Concepts

Judging Criteria:

There are three primary considerations for judging the competition that the jury will take into consideration. While the design of the space will be important, it is the science and the ability to demonstrate the understanding and application of the science that will have primary importance.

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- **Research**

  How does the submission demonstrate the appropriateness of the research for the given topic.

- **Demonstration of the Understanding of the science and Concept**

  How does the submission demonstrate a clear understanding of the topics proposed, and how does the submission show a clear connection to the research referenced in the entry.

- **Effectiveness of the Design in Communicating the Concepts**

  Is the topic clearly legible in the design solution and is the proposal successful in addressing the topic in a clear, concise and poetic way.

Competition Topics:

Sensation and Perception
Learning and Memory
Decision Making
Emotion and Affect
Movement

Submission Requirement:

All entries to be uploaded as a single file to a portal provided by the competition committee. Submission details to be issued to each registered participant later in the year. All submissions are due by June 15th End of Day. Format to be PDF file: 30”wide x 42” tall; Portrait configuration.

Content Requirement Details

- Title of Presentation
- Neuroscience Topic/Topics being exhibited in the submission
- Research etymology: List of sources used in research
- Design concept Diagram showing how research is implemented into the design
- Written description of the research solution application in your proposal
- Plans, Site Plans*, Elevations and Sections,
- Three-dimensional representation of Design solution; i.e. renderings, model photos*, sketches
- Participant’s email address, school, degree program, level of study (i.e. sophomore)

All requirements above are to be displayed within the composition of the board, The scale of drawings will be determined by the entrant, but each piece of content must be legible for the jury when printed at full scale in order to be considered. Videos and other moving image submissions may be considered, but only in addition to the requirements listed above

- Site plans are required for architecture solutions only
- If physical models are to be used in the presentation, they must be photographed, and the images included on the board.

Instructions to locate and download site information:

Upon confirmation of registration, email links to Dropbox files will be sent to all registered participants, and team members. The email will instructions on how to access them. The folders will include the following.

- Research: Books, Articles and other resources for use by participants.
- CAD Drawings of site
- CAD Drawings of Building to be used for Interior Design Participants
- Pdfs of all CAD drawings for reference.
- Drawings and other miscellaneous information about the Salk.

Should any updates to the folders occur, an email announcement will go out to all participants.

Schedule:

- Launch the Competition, release of formal Brief	Jan 1, 2024
- Registration	Extended!
- Questions and Clarifications Due	February 15 , 2024
- Q&A Responses Returned	March 1-31, 2024
- Entry Submissions Due	June 15, 2024
- Announce the Winners	July 2024

Please contact us, the ANFA Educational Committee Competition working group, at the following email address if you have any questions:

johnpeberharddesigncompetition@gmail.com

For more information on ANFA;

the Academy of Neuroscience for Architecture,

please visit our website at anfarch.org

Discourse

Spring Semester 2024